5137-3851

# LASER ENGRAVER

SPECIFICATIONS REQUIRED BY SHOP 17

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## SPECIFICATIONS:

- **1EA, LASER ENGRAVING MACHINE**

- **MACHINE HAS TO HAVE OSHA APPROVED CERTIFICATION (SEE EXPLANATION BELOW) AND BE NRTL LISTED AS A UNIT, NOT JUST THE INDIVIDUAL COMPONENTS. AS AN OPTION FOR LISTING A 3RD PARTY NRTL INSPECTION AND CERTIFICATION CAN BE USED**

- **CRITICAL:** AIR-COOLED 100 WATT UNIT
- **CRITICAL:** MATERIAL : STEEL, ALUMINUM, COOPER, PLASTICS
- **CRITICAL:** 110MM SQUARE MARK FIELD
- **CRITICAL:** 110V, 3 PHASE 60 HZ POWER
- **CRITICAL:** 254mm LENS
- **CRITICAL:** ENCLOSED IN AN ENCLOSURE FOR OPERATOR SAFETY
- **CRITICAL:** CAN OPERATE AS A STAND-ALONE WITHOUT BEING HOOKED UP TO A COMPUTER.

# ADDITIONAL ITEMS

- 75,000+ HOUR LASER LIFE
- LASER CAN BE MOUNTED IN ANY POSITION
- MANUAL OR PROGRAMMABLE Z-AXIS
- LCD DISPLAY FOR SYSTEM STATUS AND DIAGNOSTICS
- RED POINTER FOR MATERIAL SETUP
- SAFETY INTERLOCKS ON ENCLOSURE FOR MAINTENANCE
- SAFE VIEWING WINDOW FOR OPERATOR
- EXHAUST SYSTEM THAT HAS A FILTRARION SYSTEM
- ENCLOSURE BASE FOR LASER ENCLOSURE
- INSTALLATION & TRAINING BY VENDER
- 2+YEAR WARRANTY ON PARTS AND LABOR

# GENERAL EQUIPMENT REQUIREMENTS:

- ALL MATERIAL AND PARTS COMPRISING THIS SYSTEM SHALL BE NEW ANND OF SPECIFIC DESIGN AND MANUFACTURE, SHALL NOT HAVE BEEN IN PRIOR SERVICE EXCEPT AS REQUIRED FOR FACTORY TESTING. STANDARD, OFF SHELF COMPONENTS WITH PROVEN RELIABILITY SHALL BE USED WHENEVER POSSIBLE TO INCREASE PERFORMANCE RELIABILITY AND REDUCE COSTS. THE EQUIPMENT SHALL BE COMPLETE, SO THAT WHEN CONNECTED TO POWER, IT CAN BE USED FOR THE FUNCTION OF WHICH IT WAS DESIGNED AND CONSTRUCTED.

- PAINTING- ALL SURFACES SHALL BE PAINTED IN CONFORMANCE WITH THE MANUFACTURERS STANDARD PRACTICE AND GOOD WORKMANSHIP. PAINTING SHALL RESULT IN A HIGHLY WEAR RESISTANT FINISH, WHICH GUARANTEES CONTINUED PROTECTIONN TO SURFACES IN AND INDOOR ENVIROMENT WITH A TEMPERATURE RANGE OF 15° TO 110°f, UP TO 100% NON-CONDENSING RELATIVE HUMIDITY. THE STANDARD COLOR AS STATED IN THE SPECIFICATIONS SHALL BE PROVIDED. **LEAD OR CHROMIUM BASE PAINTS ARE PROHIBITED.**

- ASSURE ELECTRICAL COMPONENTS ARE RECOGNIZED BY ACCREDITED ELECTRICAL TESTING LABORATORY, APPROVED BY OSHA, *IAW* NAVSHIPYDPUGETINST P5100.66B-7. OR HAS CODE 106 CONCURRENCES VIA OF CODE 106 EQUIPMENT REVIEW.

- **OSHA Approved Certification –** The equipment installation and its component parts shall be in compliance with the applicable OSHA regulations in accordance with CFR Title 29, Chapter XVII, Part 1910 and installed in accordance with NEC/NFPA requirements. Approval shall be as specified under the "Approval" and "Acceptance" criteria in the OSHA regulations Subpart "O", Machinery and Machine Guarding paragraph 1910.212 and Subpart "S" Electrical, paragraph 1910.303 and paragraph 1910.399. After equipment delivery and installation, and prior to testing, the contractor shall provide an OSHA Certification Report. Failure to provide this certification report will delay acceptance of the equipment, and could result in rejection for failure to comply with the terms of the contract. This report documents the results of all tests performed, provides an assessment of the equipment performance for compliance with the contract requirements, and forms a basis for recommending a safety certification. The report, test and evaluation shall be a composite of those inspection requirements specified in the contract. The report shall be prepared in an orderly manner to clearly and accurately set forth the collected data and conclusion resulting from these inspection requirements, opinions and subjective conclusions shall be clearly identified. The report shall include, but is not limited to, the following:

- 3.5.11.1 List of all tests performed and by whom witnessed.

- 3.5.11.2 List of data used for evaluation.

- 3.5.11.3 Tabulation of all discrepancies related to specification performance requirements.

- 3.5.11.4 Description of limitations revealed by data utilized.

- 3.5.11.5 Actions taken to mitigate each discrepancy and limitation.

- 3.5.11.6 Recommendations for subsequent actions.

- 3.11.7 Summary conclusions.

- 3.5.11.8 Manufacturer Certification that equipment has been manufactured and installed to OSHA CFR 1910.399 (per definition of "acceptable").